What is claimed is:

_	1. An isolated ESM-1 polypeptide comprising an amino acid sequence selected from the group consisting of:
5	(a) an amino acid sequence comprising a sequence of SEQ ID NO:2;
10	(b) a variant of an amino acid sequence comprising a sequence of SEQ ID NO:2, wherein one or more amino acid residues in said variant differs from the amino acid sequence of said mature form, provided that said variant differs in no more than about 30% of amino acid residues from said amino acid sequence;
15	(c) a secreted mature form of an amino acid sequence of SEQ ID NO:19;
20	(d) a variant of a mature form of an amino acid sequence of SEQ ID NO:19, wherein one or more amino acid residues in said variant differs from the amino acid sequence of said mature form, provided that said variant differs in no more than about 30%, of the amino acid residues from the amino acid sequence of said mature form; and
25	(e) a fragment of the amino acid sequence of SEQ ID NO2, or SEQ ID NO:19.
30	2. The ESM-1 polypeptide of claim 1, wherein said polypeptide comprises an amino acid sequence of a naturally-occurring allelic variant of an amino acid sequence selected from the group consisting of SEQ ID NO:2, and SEQ ID NO:3.

3.

	sequence of said variant comprises a conservative amino acid substitution.
5	4. An isolated ESM-1 polypeptide comprising an amino acid sequence selected from the group consisting of: SEQ ID NO:2, or SEQ ID NO:3.
10	5. An isolated nucleic acid molecule comprising a nucleic acid sequence encoding the polypeptide of claim 1.
15	6. The isolated nucleic acid molecule of claim 1 wherein the nucleic acid sequence comprises a sequence selected from the group consisting of:
13	a) a nucleic acid sequence capable of hybridizing under stringent conditions, or which would be capable of hybridizing under said conditions but for the degeneracy of the genetic code, to the DNA sequence of SEQ ID NO:1;
20	b) a nucleic acid sequence having at least about 80% homology to the DNA sequence of SEQ ID NO:1; and
25	c) a complement of SEQ IDNO:1. 7. The nucleic acid molecule of claim 6, wherein the nucleic
30	8. The nucleic acid molecule of claim 6, wherein said nucleic acid molecule hybridizes under stringent conditions to a nucleotide sequence of SEQ ID NO:1 or a complement of said
	nucleotide sequence.

The polypeptide of claim 1, wherein the amino acid

9.

	6, 7, or 8.		
	10.	The vector of claim 9, further comprising a promoter	
5	operably links	ed to said nucleic acid molecule.	
	11.	A host cell comprising the vector of claim 10.	
	12.	A method of producing an ESM-1 polypeptide	
10	comprising: g	rowing under suitable nutrient conditions, a host cell of	
	claim 11 unde	er conditions that result in the expression of said ESM-1	
	polypeptide.		
	13.	A microarray comprising the nucleic acid sequence of	
15	claim 1.		
	14.	The microarray of claim 13 wherein said nucleic acid	
	sequence com	aprises the nucleic acid sequence of SEQ ID NO:1.	
20	15.	An antibody that immunospecifically-binds to the ESM-1	
	polypeptide o	f claim 1.	
	16.	The antibody of claim 15, wherein said antibody is a	
	monoclonal antibody.		
25			
	17.	The antibody of claim 16, wherein said antibody is an	
	antibody frag	ment.	
	18.	The antibody of claim 17, wherein said antibody	
30	fragment is se	elected from the group consisting of a Fv fragment, a Fab	
	fragment, (Fa	b) ₂ fragment, and a single chain antibody.	

A vector comprising the nucleic acid molecule of claim 5,

	19. The antibody of claim 15, 16, 17, or 18, wherein said
	antibody is an antagonist.
	20. The antibody of claim 19 wherein the antibody is a
5	humanized antibody.
	21. The antibody of claim 19 wherein the antibody is a fully
	human antibody.
10	22. A method of identifying an agent that binds to the ESM-1
	polypeptide of claim 1, the method comprising:
	(a) contacting said polypeptide with said agent; and
	(b) determining whether said agent binds to said polypeptide.
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	23. A method for identifying an agent that modulates the
	expression or activity of the ESM-1 polypeptide of claim 1, the method
	comprising:
20	(a) providing a cell expressing said polypeptide in an operational
20	manner;
	(b) contacting the cell with said agent; and
	(b) contacting the cen with said agent, and
	(c) determining whether the agent modulates expression or
25	activity of said polypeptide,
	whereby an alteration in expression or activity of said peptide
	indicates said agent modulates expression or activity of said polypeptide.
	24. A method for modulating the activity of the ESM-1
30	polypeptide of claim 1, the method comprising: contacting a cell sample
	expressing the ESM-1 polypeptide of claim 1 with a compound that
	binds to said polypeptide in an amount sufficient to modulate the activity

of the polypeptide.

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- 25. A method of treating or preventing an angiogenesis associated disorder, said method comprising administering to a subject in which such treatment or prevention is desired the ESM-1 polypeptide of claim 1 in an amount sufficient to treat or prevent said angiogenesis associated disorder in said subject.
- 26. A method of treating or preventing an angiogenesis associated disorder, said method comprising administering to a subject in which such treatment or prevention is desired the antibody of claim 19 in an amount sufficient to treat or prevent said angiogenesis associated disorder in said subject.
- 27. A pharmaceutical composition comprising the ESM-1 polypeptide of claim 1 and a pharmaceutically acceptable carrier.
- 28. A pharmaceutical composition comprising the antibody of claim 19 and a pharmaceutically acceptable carrier.
- 29. A kit comprising the pharmaceutical composition of claim 28.
- 30. A method of detecting differentially expressed genes correlated with a cancerous state of a mammalian cell, the method comprising the step of detecting at least one differentially expressed gene product in a test sample derived from a cell suspected of being cancerous, where the gene product is encoded by the nucleic acid sequence SEQ ID NO:1, wherein detection of differentially expressed product is correlated with a cancerous state of the cell from which the test sample was derived.
- 31. A method for detecting the presence of a nucleic acid molecule of claim 6 in a sample comprising:

	a) contacting the sample with a nucleic acid probe or primer
	which selectively hybridizes to the nucleic acid molecule; and
5	b) determining whether the nucleic acid probe or primer binds to a nucleic acid molecule in the sample to thereby detect the presence of a
3	nucleic acid molecule of claim I in the sample.
	32. A method for monitoring the progression of an
	angiogenic disorder in a patient, the method comprising:
10	a) detecting in a patient sample at a first point in time, the
	expression of a marker, wherein the marker is the ESM-1 polypeptide of
	claim 1;
15	b) repeating step a) at a subsequent point in time; and
15	c) comparing the level of expression detected in steps a) and b),
	and therefrom monitoring the progression of the angiogenic disorder.
	33. A method of assessing the efficacy of a test compound
20	for inhibiting angiogenesis, the method comprising comparing:
	a) expression of a marker in a first sample obtained from a
	patient exposed to the test compound, wherein the marker is the ESM-1
	polypeptide of claim 1, and
25	b) expression of the marker in a second sample obtained from the
	patient, wherein the sample is not exposed to the test compound,
	wherein a significantly lower level of expression of the marker in the
	first sample, relative to the second sample, is an indication that the test
	compound is efficacious for inhibiting the cancer in the patient.
30	
	34. A method of assessing the efficacy of a therapy for
	inhibiting angiogenesis in a patient, the method comprising comparing:

a) expression of a marker in the first sample obtained from the
patient prior to providing at least a portion of the therapy to the patient,
wherein the marker is ESM-1 polypeptide of claim 1, and
b) expression of the marker in a second sample obtained from the
patient following provision of the portion of the therapy, wherein a
significantly lower level of expression of the marker in the second
sample, relative to the first sample, is an indication that the therapy is
efficacious for inhibiting the cancer in the patient.
35. A method of selecting a composition for inhibiting
angiogenesis in a patient, the method comprising:
(a) obtaining a sample comprising cancer cells from the
patient;
(b) separately exposing aliquots of the sample in the presence
of a plurality of test compositions;
(c) comparing expression of a marker in each of the aliquots,
wherein the marker is selected from the group consisting of the markers
of SEQ ID NO:2, and SEQ ID NO:3, and
(d) selecting one of the test compositions which alters the level
of expression of the marker in the aliquot containing that test
composition, relative to other test compositions.

36.

37. The antagonist of claim 36 wherein said antagonist is an antisense molecule.

An ESM-1 polypeptide antagonist.

- 38. A chimeric molecule comprising the ESM-1 polypeptide of claim 1.
- 39. A transgenic non-human mammal having integrated into its genome a nucleic acid sequence encoding ESM-1 operatively linked to regulatory elements, wherein expression of said coding sequence increases the level of ESM-1 relative to a non-transgenic mammal of the same species, wherein the coding sequence is the nucleic acid of claim 6.
- 10 40. The mammal of claim 39, which is a mouse.
 - 41. A transgenic knockout non-human mammal comprising a homozygous disruption in its endogenous ESM-1 gene, wherein said disruption prevents the expression of a functional ESM-1 protein.